

Evidence of a Chemical Reaction

Was mass conserved? Yes or No _____ (Uncertainty = +/- .5 g)

Analysis:

1. Did you observe any evidence of a chemical reaction? Hint: Where is the Magnesium?

2. During the flame test, explain what you observed when the flame came in contact with the contents in the flask.

3. Using **Table 2** and based on your observations, what is the identity of the unknown gas from the reaction?

Explain: _____

Table 2: Properties of Know Gases

Carbon Dioxide (CO₂) – Clear, colorless, odorless, Nonflammable, puts out fire

Oxygen (O₂) – Clear, colorless, odorless, Nonflammable, but allows fuel to burn

Hydrogen (H₂) – Clear, colorless, odorless, flammable

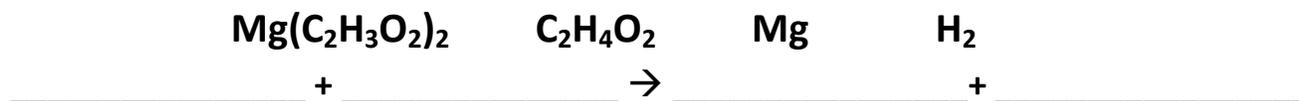
Conclusion:

1. Where did the _____ gas come from? *Explain the reaction in your own words.* Be specific

2. Write a **chemical word equation** below using the following words: *Magnesium Acetate, Acetic Acid, Hydrogen, and Magnesium*. Label each chemical with an (R) if it is a reactant and a (P) if it is a product

_____ () reacts with _____ () to produce _____ () and _____ ().

3. Write the chemical equation below using the following chemical formulas from the reaction:



4. What type of chemical reaction occurred in the lab today? *See notes on page 83 for help*

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